

Comments enclosed 6/18/81 - Lee

Page 1 of 11

MINED LAND RECLAMATION -- CHECKLIST

TITLE 40-8 UCA 1953
GENERAL RULES AND REGULATIONS
RULES OF PRACTICE AND PROCEDURE

— Mary Ann 6-26-81

MINE Western Tar Sands
ACT/ COUNTY
COMPANY REPRESENTATIVE LOUIS I. HART, JR.

MINE PLAN DATE June 1, 1981
DATE RECEIVED June 2, 1981
DOGM LEAD REVIEWER Tom Tetting

CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
	LEGAL, FINANCIAL			
M-3/MR 1/1.	Name of Applicant	✓		2 scales on map M-1
M-3/MR 1/2.	Address	✓		
	Permanent	✓		
	Temporary	✓		
M-3/MR 1/3.	Company Representative	✓		
	Name	✓		
	Title	✓		
M-3/MR 1/4.	Address	✓		
	Office Phone	✓		
M-3/MR 1/5.	Location			Uintah County
	County			T7S R 25E Sec 16
	Township/Range/Section			
M-3/MR 1/6.	Name of Mine			this mine going to be called the Raven Ridge project - phase I. BITUMINOUS TAR SAND
M-3/MR 1/7.	Mineral to be Mined			
M-3/MR 1/8.	Other Approvals/Listed	-		
M-3/MR 1/9.	Owners of Record of Land Affected			State of Utah
M-3/MR 1/10.	Owners of Record of Minerals to be Mined	✓	no	State of Utah
M-3/MR 1/11.	Owners of Record of all Other Minerals	none	no	State of Utah

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DOGM LEAD REVIEWER _____

CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
M-3/MR 1/11a.	Notification of Other Owners in Writing	✓	only 1?	Pacific Transmission
M-3/MR 1/12.	Legal Right to Enter & Conduct Operations	no	no	Supply yes-? Need ml 22168 document
M-3/MR 1/13.	Acreage			The applicant must
	1. Operation Area .85	✓	notify all mineral owners	of record. * John A. Morgan Jr. & Sr. Justheim Petroleum Co.
	2. Access Road or Haulways 3.46			Farmout Agreement
	3. Drainage System -			(OK)
	4. Total Land Affected 4.31	✓	✓	* The applicant should
M-3/MR 1/14.	Principal Executives, Officer & Partners	✓	✓	include the Farm out agreement
	Name	✓	✓	to demonstrate his legal
	Title	✓	✓	right to enter.
	Address	✓	✓	
M-3/MR 1/15.	Previous Notice of Intention Withdrawn	✓	✓	
M-3/MR 1/16.	Signed	✓	✓	
	<u>MAPS AND PLANS</u>			
M-3(1)	True Copy Map or Plat	OK	OK	3 1/2 SW 1/4 NW 1/4 Sec 16
M(3)(1)(a)	Land Affected Delineation	OK	OK	no topsoil piles
M(3)(1)(b)	Within Land Affected			Comments back
	Existing Mine Areas			page 2
	Active	na		
	Abandoned (prior to May, 1975)			
	Boundaries of Surface Properties	- all of		
	Names of Surface Owners	16 not	OK	
	Names of Mineral Owners	needed		

Pursuant to Rule M-3(i), Rule M-6 and Rule M-10 the applicants maps must show the following:

- a. The applicant indicates 0.15 acres for the Top soil stockpile ^{OK} and Disturbance Sedimentation ditches but fails to delineate these proposed structures on Map M-1. (Rule M-3(i)(e) and (d)).
- a. The applicants delineation of land affected in Phase I, for which the applicant wishes this permit must correspond with the acreages on MR FORM 1, item 13, the Disturbed area projection (including year 2) page 13 of the applicants ^{what} Mining and reclamation plan. It appears the correct acreage should be 6.28 acres.
- b. Does the intermittent stream channel have a name? Rule M-3(i)(d)
- c. Does the applicant have an ^{discharges from} the plant? (Point Source). Rule M-3(i)(h)
- d. What is the source of water for plant operation? The applicant should show any water supply diversion points or wells.
- e. The applicant must show drainage plans, including direction of flow and receiving waters (Rule M-3(i)(e) & Rule M-10(i)).

(continued)

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CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
M-2	"Land Affected means the surface and subsurface of an area within the state where mining operations are being or will be conducted, including, but not limited to: on-site private ways, roads, and railroad lines appurtenant to any such area; land excavations; exploration sites; drill sites or workings; refuse banks or spoil piles; evaporation or settling ponds; leaching dumps; placer areas; tailings ponds or dumps; work parking, storage, or waste discharge areas; areas in which structures, facilities, equipment, machines, tools or other materials or property which result from or are used in such operations, are situated. All lands shall be excluded that would be otherwise includable as land affected but which have been reclaimed in accordance with an approved plan or otherwise, as may be approved by the Board, and lands in which mining operations have ceased prior to July 1, 1977."			<i>Comments back of page 2 & 3</i> topsoil storage is not specified on M-1 as stated in plan.
M-3(1)(c) M6	"All maps and plans prepared for submission with the Notice of Intention to Commence Mining Operations shall be of adequate			

(maps & Plans lent)

A) Location of the proposed location of the strip area for Topsoil for the roads; plant site, and mine. Refer to Rule M-10(14).

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M-3(1)(c) M6 (continued)	scale and detail to show topographic features and clearly indicate details of the proposed operations in accordance with Rule M-3. A color code, or other legend, shall be used in preparing all maps to clearly indicate surface features of the land affected."			
M-3(1)(d)	Names and Locations Lakes, Rivers, Streams, Creeks Roads, Buildings Active, Abandoned Facilities Transmissions Lines (within 500 feet)	shown OK N/A ?	non name OK	Comment back page 2 What treatment is planned for sedimentation control of disturbed area runoff? Where will berm near intermittent stream direct runoff to? also a diversion of natural drainage planned for uphill drainage? (over)
M-3(1)(e)	Drainage Plan Overburden, Topsoil, Waste Stockpiles Directional Flow Constructed Drainways, Diversions, Berms Receiving Waters	no soils no flow Berms shown OK	show show maybe OK OK	
M-3(1)(f)	Drill Holes Location Status Depths and Thickness Water Bearing Strata Mineral Deposits Toxic Materials Revegetation Materials (topsoil)	OK OK OK	 OK	No status shown abandoned & reclaimed None of the
M-3(1)(g)	Locations of Disposal and Stockpile Areas Topsoil Storage Overburden Materials Waste, Tailings, Rejected Materials Tailings-Ponds Discharge Points, Water Effluents	not shown shown shown none no shown	not shown OK OK	where will fresh water be taken materials to be removed for see 2-55 comments see comments for on back page 2 further detail on hydro.

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CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
	<u>EFFLUENT CONTROL</u>			
M-10/11	Methods for Controlling Sediment			
M(3)(3)(11)	"Sediment Control--Mining operations shall be conducted in a manner such that sediment from areas disturbed in mining or reclamation activities is adequately controlled. The degree of sediment control shall be appropriate for the site-specific and regional conditions of topography, soil, drainage, water quality, or other characteristics."			
M-3(1)(h)	Description of Water to be Disposed Expected Acid or Salt Content Expected Toxicity Expected Impact on Downstream Waters Description of Discharge Permits			
M-3(3)	<u>OPERATION PLAN/SITE CONSTRUCTION</u>			
M-3(3)/MR 1-7 MR 2-7	Mining Method General Details If Sedimentary Deposit Seam Thickness Dip Outcrop	12' to 15' 24°-27° SW S48°W 2 yrs	OK OK OK Map M-1	Strike S42°E Overburden 124-9 N 50'
MR 2-11(1)	Mining Sequence			
MR 2-11(b)	Construction and Maintenance of Access Roads Procedures Cross-section Profile	OK 8-10% max 15-20%	Map M-2	Final design to be made?

Wayne

MINED LAND RECLAMATION -- CHECKLIST

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CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
MR 2-11(c)	Site Preparation Trees Brush	P. 7	no	How will brush be disposed? <i>did not see this in review yes!</i>
M-3(2)c MR 2-11(d)	Topsoil, Root Growth, Medium			
MR-2/11(c)	Methods for Removal Amounts of Topsoil Removed Methods of Topsoil Protection			
M-10(14)	"Soils--Except where slope or rocky rocky terrain make it impossible, all surficial materials, suitable as a growth medium, prior to any major excavation, shall be removed, segregated, and stockpiled according to its ability to support vegetation as determined by soil analysis and/or practical revegetation experience. The stockpiles shall be protected in such a manner as to minimize or prevent wind and water erosion, unnecessary compaction, and contamination by undesirable materials. Redistribution and surficial material after final grading shall be accomplished in such a manner as to promote revegetation success."			There is no physical or chemical characterization of soil in permit area. How deep are horizons of productive materials. What volume will actually be removed? To what depth will soils be replaced for reclamation? Can't concern with determining reclaim. species if soils aren't identified page 7 of Reorg Plan states soil stockpile = 1 acre, is this true?
M-3(2)c MR 2-11(e)	Disturbed and Excess Materials Tailings, Waste and Reject Handling Method of Placement and Containment Stability and <u>Erosion Control</u> Overburden Method of Placement and Containment Stability and Erosion Control Toxic, Acid/Alkali Producing Materials	OR —	OR comment C	Does the applicant propose any erosion control for the overburden storage pile? What protection measures are planned for OVER → Has any testing of processed tail sand show toxicity?

~~What~~ Will processed sands be stored on the site? When?
at what point will one be done and sand be in place? What environmental
protection is planned for either?

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CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
MR-2/10.	Determination as Toxic, Acid, Alkali Testing Procedure and Results			The applicant must demonstrate that the leachate/sort (slime) from the pilot plant is non-toxic. Acid or alkali producing by providing results of tests.
M-2 K(6)	"Toxic means any chemical or biological or adverse characteristic of the material involved which could reasonably be expected to negatively affect ecological or hydrological systems or could be hazardous to the public safety and welfare."			
M-10(6)	"Toxic Materials--All toxic or potentially toxic material, as defined by Rule M-2(k), shall be safely removed from the site or left in an isolated condition such that solid, liquid or gaseous toxic emissions to the environment are reasonably eliminated or controlled. Such isolation practices may include, but not be limited to, burial, subsurface injection, chemical precipitation or neutralization, and filtering. All appropriate regulations of the Division of Health must be complied with as well as Federal regulations."			
<i>Sally D</i> M-3(2)(c) MR-2/11(e)	Method of Placement and Containment Stability and Erosion Control			The applicant must provide a discussion of erosion and stability control for the overburden stockpiles & soil stockpiles

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CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
M-3(2)	<u>RECLAMATION PLAN</u>			
M-10	<p>"The following reclamation standards are established where applicable for all work or activity required to be performed in accordance with reclamation plans approved subsequent to June 1, 1978. Mine workings abandoned prior to May, 1975, need not be reclaimed unless said workings are utilized for subsequent operations. Areas on which these standards are proposed to be non-applicable will be designated on the maps submitted by this operator in accordance with Rule M-6, and may be shown on supplementary ground or air photographs.</p> <p>Said standards shall apply to all operators covered by a mining and reclamation plan and variances to all portions herein will be considered on a site-specific basis by the Division and/or Board."</p>			
M-2i	<p>"Reclamation means actions performed during or after mining operations to shape, stabilize, revegetate, or otherwise treat the land affected in order to achieve a safe, stable, ecological condition and use which will be consistent with local environmental conditions."</p>			ok

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CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
M-3(2)/MR 2,3 M-3(2)(a) M-3(2)(a) M-3(2)(b)	Land Uses Prior Land Uses <i>Cattle grazing</i> Current Uses Potential Uses <i>Cattle</i>	<i>OK</i>		
M-10(1)	"Land Use--The operator shall abandon the area affected in a condition which is capable of supporting a postmining use that is compatible with probable land uses."			
M-3(2)/MR 2-4	Existing Vegetation Percent Cover			<i>where is data on soil pH and other chemical characteristics</i>
M-3(2)/MR 2-5	Existing Soils pH Soil Lab Reference			
M-3(2)/MR 2-6	Site Elevation Site Abandonment	<i>✓</i>	<i>✓</i>	
M-10(2)	"Public Safety and Welfare--The operator shall minimize hazards to the public safety and welfare following mining. Methods to minimize hazards shall include but not be limited to: (a) The closing of shafts and tunnels to prevent unauthorized or accidental entry.			<i>The applicant should discuss whether there is a safety hazard to the public, stock, or wild life. Should the area be fenced? The applicant shall post warning signs. Rule M-10(</i>

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CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
M-10(2) (continued)	(b) The disposal of trash, scrap metal and wood, unusable buildings extraneous debris and other materials incident to mining in a manner approved by the Division and in accordance with the Rules and Regulations of the Division of Health.			The applicant must discuss methods proposed for disposal of trash.
	(c) The plugging and capping of drill, core or other exploratory holes as set forth in Rule M-3(5).			Has this been accomplished? <i>no?</i>
	(d) The posting of appropriate warning signs in locations where public access to operations is readily available.			The applicant must show in the plan ^{where} warning signs in location of public access will be posted.
	(e) The construction of berms, fences and/or barriers above high-walls or other excavations when required by the Division."			The applicant should discuss whether fences are necessary for public, wild life or stock protection.
M-10(9)	Structure Removal "Structures and Equipment--All structures, rail lines, utility connections, equipment, and debris shall be removed from the surface prior to regrading and reclamation unless temporarily abandoned or approved by the Division for a continuing use."			The applicant shall discuss the abandonment following mining if phase II not started. Removal of structures

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CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
M-3(2)(d) MR-2(f)	Procedures and Methods For Final Stabilization and Regrading	✓	✓	x section shows
MR-2(a)	Typical Cross-section of Regraded areas Specific Description of Regrading areas	✓	✓	
M-10(10)	<p>"Shafts and Portals--All shafts and portals shall be covered or closed and all trenches and small pits shall be backfilled or covered when a mine has been abandoned so as to eliminate any safety hazard.</p> <p>Roads and Pads--On-site roads and pads shall be reclaimed or stabilized when the operator determines that they are no longer needed for mining operations. The reclamation should include provisions for adequate surface drainage protection and unrestricted drainage crossings. When a road or pad is to be turned over to an approved continuing use, as determined by the operator, the operator shall turn over the property with adequate surface drainage, drainage structures, ditching, and in a general condition suitable for the continued use.</p> <p>Highwalls--In strip mining or open pit mining and in open cuts for pads or roadways all such highwalls shall be reclaimed by backfilling</p>			<p>The applicant must include reclamation of roads - typical reclaimed x section soil distribution etc.</p> <p>no highwalls</p>

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CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
Highwalls (continued)	against them or by cutting the wall back to achieve a slope angle of 45° or less. Where the highwall is composed of solid rock; is designed to be stable utilizing benches, tie-backs, etc.; or, there is insufficient material reasonably available to backfill; or cutting the wall back would result in excessive damage to undisturbed land above the highwall; and taking into consideration suitable alternative safety measures; future land use, etc.; the Division may modify or waive the above requirements."			
MR-2(e)	<p>Description of Maximum Slope Grades</p> <p>"Slopes--All waste piles, spoil piles, and fills shall, if possible, be regraded to a rounded configuration and they shall be sloped to minimize safety hazards and erosion. The angle of slope from the bottom to the top of the pile or fill can be greater than the surrounding terrain provided that the mass stability of the slope is assured and that the erosion of the slope is minimized by measures such as, but not limited to; terracing, surface drainage facilities, cross-slope ripping or scarifying and vegetation. In no case shall the slope of a pile or fill exceed the angle of repose of</p>			<p>Application of Should discuss role of secondary stock pile in reclama- tion. Will it be landscaped? Need to characterize chemical & physical attributes of overburden to determine whether it is possible to have deep of a soil cover is necessary if it is not stable & especially if not covering to same depths as usually found.</p> <p>Additional available to provide an estimate of material that will be needed</p>

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CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
Slopes (continued)	the material or such lesser slope as required by the Division considering such factors as: land use, material properties, revegetation potential or erosion control."			
MR-2(1)	Description of Determining Stability of Reclaimed Fill Material	✓	✓	ok x section
MR-2(f)	Description of the Method of Drainage Control for Regraded Areas "Drainages--All natural channels and associated flood plains shall not be covered, restricted or rerouted by roads, pads, piles, fills or diversions unless specifically approved by the Division after a suitable hydrologic study and incorporating a sound hydraulic design. All drainage structures, sediment or flood control structures, spoil, ore, waste, fill material and debris must be removed from natural channels and flood plains before an operator abandons the site except where approved by the Division.			

MINED LAND RECLAMATION -- CHECKLIST

MINE DOGM LEAD REVIEWER

CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
M-10(13)	Dams--All major water impounding structures such as tailings, dams, water storage and supply dams, coal waste dams and major sedimentation control dams shall be reclaimed when abandoned so as to be nonimpounding, self-draining, mechanically stable and protected from erosion.			
M-10(3)	Impoundments--All evaporation, tailings and sediment ponds; spoil piles, fills, pads and regraded areas shall be self-draining and nonimpounding when abandoned unless previously approved as an impounding facility by a lawful state or federal agency."			
MR-2(10)	Topsoil Distribution Plans Specific Description of Spreading Topsoil/ Growth Medium Approximate Thickness of Topsoil/Growth Medium			<i>most detailed need data on vol, thickness of final seed bed</i>
MR-2(3)	Description of Surface Preparation			
MR-2(1)	Revegetation Plans Who Will Complete Revegetation? Seed Bed Preparation			

Salt
May 1991

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CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
MR-2(1)	Description of Soil Treatments to Aid Revegetation			<i>should obtain a statement on seeding preparation.</i>
M-10.12	"Practical land treatments may include but not be limited to: scarifying, mulching, fertilization, irrigation, chisel plowing, harrowing and the introduction of soil mycorrhiza.			<i>will do as needed</i>
M-10.12	Description of Method for Testing Soil to Support Vegetation Fertilization Plans			<i>will monitor for reveg. success.</i>
MR-2-2.	Mulch Type Rate/Acre			<i>not included or planned for.</i>
M-3(2)(e())	Seeding "A planting program as best calculated to revegetate the land affected. Where there is no original protective cover, an alternate practical procedure should be proposed to minimize or control erosion or siltation. When applicable, the objective in revegetation should be to stabilize the land as quickly as possible after it has been disturbed in order to achieve permanent and protective vegetative cover. Non-noxious native plants that will give a quick, permanent, protective cover and enrich the soil shall be given priority."	<i>ok</i>		

OK MAX

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CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
MR 2-1	Description of Seeding Method	ok		
MR 2-3	Justification of Seed Mix	ok		
M-10(12)	<p>"Revegetation--Where possible, a self-sustaining vegetative cover consisting of non-noxious perennial plants shall be established by the operator subsequent to final grading on the entire area affected. Plants shall be a diverse mixture of grasses, shrubs, forbs and where potential for forestation exists, trees; the mixture may include both native and introduced species. Revegetation shall be performed using professionally accepted methods such as seeding, transplanting or propagating by cuttings.</p> <p>(1) The species selection shall reflect the post-mining land use as set forth in Rule M-10(1)</p>	ok		
MR-2 3.	U. S. Soil Conservation Service			
MR-2 3.	Test Plots Use of Seed Mix	N/A		
MR-2 3.	Description of Application Location/Facing (bearing) Rate Per Acre (PLS) Species Mix Per Location Season to be Planted Maintenance/Monitoring	ok		

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CITATION	REGULATION	INCLUDED IN PLAN	ADEQUATE	COMMENTS
MR-2/5.	Description of Irrigation Methods To Establish Vegetation	<i>none</i>	<i>ok</i>	
	Inspections			
	Frequency			
	Purpose	<i>no</i>	<i>not ok</i>	<i>Applicant should provide for protection from livestock grazing and maintaining for success</i>
	Livestock Grazing			
	Fencing			
	Vegetation Protection			
M-3(2)(f)	Reclamation Schedule			
	Estimated Time for Construction			
	Estimated Time for Interim Reclamation	<i>OK</i>	<i>OK</i>	<i>Is the plant built, estimate for construction needed</i> <i>3 months (regrade)</i> <i>Will the applicant do contemporaneous reclamation</i>
MR-2 8.	Estimated Duration of Mining Operation			
M-3(2)f	A Time Table for the Accomplishment of Each Major Step in Reclamation Plans			
M-5	Reclamation Surety Estimate			
	Estimate Based on Reclamation Plan			
	Cleanup and Removal of Structures			
	Grading and Contouring			
	Stabilization — <i>reveg 2800/acre</i>			
	Labor			
	Safety and Fencing			
	Monitoring			<i>applicant states will fence not included or shown</i>
M-3	Standard of Reclamation Success			
	"(2) Revegetation shall be deemed to be accomplished and successful when:			<i>Need Estimate per estimate form.</i>
	(a) Species intended for revegetation by this Rule have achieved a surface cover of at least 70% of the representative vegetative communities surrounding the mine. Surrounding vegetative cover levels shall be	<i>no</i>	<i>not ok</i>	<i>Applicant has achieved success when 35% cover is established.</i>

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INCLUDED				
CITATION	REGULATION	IN PLAN	ADEQUATE	COMMENTS
(a) (continued)	<p>determined by the operator using professionally accepted inventory methods and be approved by the Division.</p> <p>(b) The vegetation initiated on the area affected has survived for at least three (3) growing seasons, is evenly distributed, and is not supported by irrigation or continuing soil amendments.</p> <p>(3) Exceptions to Part 12 may be granted by the Division for areas which consist of solid rock outcrops and it is demonstrated by the operator that sufficient surficial soil does not exist for covering said outcrops. Test plots established by the operator in consultation with the Division shall demonstrate after all practical land treatments have been attempted that the revegetation standards are not attainable."</p> <p>Commitment to Rule M-10.</p>	not sure	no	<p>Applicant is committing to revegetate all areas disturbed</p> <p>Any areas to be exempted? eg rock outcrops?</p>
M-10 MR-8				